

## Volume contents, 1988

### Vol. 54, No. 1

Publisher's announcement	3
Polonelli L., Dettori G., Morace G., Rosa R., Castagnola M. & Schipper M.A.A.: Antigenic studies on <i>Rhizopus microsporus</i> , <i>rh. rhizopodiformis</i> , progeny and intermediates ( <i>Rh. chinensis</i> )	5
Whang K. & Hattori T.: Oligotrophic bacteria from rendzina forest soil	19
Bezbaruah R.L., Pillai K.R., Gogoi B.K. & Baruah J.N.: Effect of growth temperatur and media composition on the fatty acid composition of <i>Bacillus stearothermophilus</i> AN 002	37
Nakase T. & Suzuki M.: <i>Sporobolomyces yuccicola</i> , a new species of ballistosporous yeast equipped with ubiquinone-9	47
Laaser G., Jahnke K.-D., Prillinger H., Bauer R., Hoffmann P., Deml G. & Oberwinkler F.: A new tremelloid yeast isolated from <i>Asterophora lycoperdoides</i> Bull.: Fr.) Ditm.*	57
Sevilla M.J., Moragues M.D. & Uruburu F.: Growth and macromolecular content of the dimorphic fungus <i>Aureobasidium pullulans</i> and the effect of hydroxyurea and other inhibitors*	75
Baran K., Międzobrodzki J. & Porwit-Bóbr Z.: Preliminary estimation of chemoattractant activity of staphylococcal serine proteinase in vitro**	85
Ochałek T., Turyna B. & Porwit-Bóbr Z.: Surface interaction of human granulocytes and lymphocytes with staphylococcal extracellular serine proteinase**	89

### Vol. 54, No. 2

Bulthuis B.A., Frankena J., Koningstein G.M., Van Verseveld H.W. & Stouthamer A.H.: Instability of protease production in a <i>rel</i> <sup>+</sup> / <i>rel</i> <sup>-</sup> -pair of <i>Bacillus licheniformis</i> and associated morphological and physiological characteristics	95
Belay N. & Daniels L.: Ethane production by <i>Methanosarcina barkeri</i> during growth in ethanol supplemented medium	113
Guiraud J.P., Mouillet D., Bourgi J., Claisse M. & Galzy P.:	

\* Research reports

\*\* Short communications

Impairment of inulin assimilation and $\beta$ -fructosidase activity due to a petite mutation in <i>Kluyveromyces marxianus</i>	127
Pillon L., Chan M., Franczyk J. & Goldner M.: Comparative use of amino acids by three auxotypes of <i>Neisseria gonorrhoeae</i>	139
Garcia E., Bergmans H.E.N., Van den Bosch J.F., Ørskov I., Van der Zeijst B.A.M. & Gastra W.: Isolation and characterisation of dog uropathogenic <i>Escherichia coli</i> strains and their fimbriae	149
Daumas S., Cord-Ruwisch R. & Garcia J.L.: <i>Desulfotomaculum geothermicum</i> sp. nov., a thermophilic, fatty acid-degrading, sulfate-reducing bacterium isolated with $H_2$ from geothermal ground water	165
Hofmann K.H. & Schauer F.: Utilization of phenol by hydrocarbon assimilating yeasts	179

### Vol. 54, No. 3

Lidstrom M.E.: Isolation and characterization of marine methanotrops	189
Van der Walt J.P., Yamada Y., Ferreira N.P. & Richards P.D.G.: New basidiomycetous yeasts from Southern Africa. III. <i>Sporobolomyces phyllomatis</i> sp. nov. (Sporobolomycetaceae)	201
Keltjens J.T., Hermands J.M.H., Rijdsdijk G.J.F.A., Van der Drift C. & Vogels G.D.: Interconversion of $F_{430}$ derivatives of methanogenic bacteria	207
Ugalde U.O. & Pitt D.: Properties of mitochondria from <i>Penicillium cyclopium</i> and their response to calcium and other divalent cations	221
Totsuka M.: Phage-receptor on the cell wall of <i>Veillonella rodentium</i>	229
Middelhoven W.J., Slingerland R.J. & Notermans S.: The effect of growth conditions on production and excretion of extracellular antigens by three ascomycetous yeasts	235
Strand S.E., McDonnell A.J. & Unz R.F.: Oxygen and nitrate reduction kinetics of a nonflocculating strain of <i>Zoogloea ramigera</i>	245
Yu Y.M., Ohba M. & Aizawa K.: Affinity purification of a 65-kilodalton parasporal protein from <i>Bacillus thuringiensis</i> PG-14 that shows mosquitocidal activity	257
Oren A.: Anaerobic degradation of organic compounds at high salt concentrations***	267



## Vol. 54, No. 4

Oudega B. & De Graaf F.K.: Genetic organization and biogenesis of adhesive fimbriae of <i>Escherichia coli</i> ***	285
Borch E. & Molin G.: Numerical taxonomy of psychotrophic lactic acid bacteria from prepacked meat and meat products	301
Van Eijk G.W., Roeijmans H.J. & Van Der Aa H.A.: Labdane diterpene derivatives from <i>Holwaya mucida</i>	325
Loureiro-Dias M.C.: Movements of protons coupled to glucose transport in yeasts. A comparative study among 248 yeast strains	331
Lee K.Y., Joseph C.M. & Meeks J.C.: Glutamine synthetase specific activity and protein concentration in symbiotic <i>Anabaena</i> associated with <i>Azolla caroliniana</i>	345
Zierdt C.H., Detlefson C., Muller J. & Waggle K.S.: <i>Cyniclomyces guttulatus</i> ( <i>Saccharomycopsis guttulata</i> ) – culture, ultrastructure and physiology	357
Casalone E., Di Ilio C., Federici G. & Polsinelli M.: Glutathione and glutathione metabolizing enzymes in yeasts	367

## Vol. 54, No. 5

**Special issue: Molecular biology of virulence factors of bacteria**

Mekalanos J.J., Peterson K.M., Finn T. & Knapp S.: The pathogenesis and immunology of <i>Vibrio Cholerae</i> and <i>Bordetella Pertussis</i>	379
Sansonetti P.J.: Molecular basis of invasion of eucaryotic cells by <i>Shigella</i>	389
De Graaf F.K.: Fimbrial structures of enterotoxigenic <i>E. Coli</i>	395
Normark S., Hultgren S., Marklund B.-I., Strömberg N. & Tennent J.: Biogenesis of pili adhesins associated with urinary tract infectious <i>Escherichia Coli</i>	405
Korhonen T.K., Virkola R., Westerlund B., Tarkkanen A.-M., Lähteenmäki K., Sareneva T., Parkkinen J., Kuusela P. & Holthöfer H.: Tissue interactions of <i>Escherichia Coli</i> adhesins	411
Meyer F.T., Frosch M., Gibbs C.P., Haas R., Halter R., Pohlner J. & Van Putten J.P.M.: Virulence functions and antigen variation in pathogenic <i>Neisseriae</i>	421
Young D.B., Mehlert A., Bal V., Mendez-Samperio P., Ivanyi J. & Lamb J.R.: Stress proteins and the immune response to mycobacteria-antigens as virulence factors?	431

Hofnung M.: Expression of foreign antigenic determinants on bacterial envelope proteins	441
Dougan G., Maskell D., O'Callaghan D., Chatfield S., Charles I. & Hormaeche C.: Oral vaccination	447
Goebel W., Chakraborty T. & Kreft J.: Bacterial hemolysins as virulence factors	453
Mooi F.R.: Virulence factors of <i>Bordetella Pertussis</i>	465
Foster T.J., O'Reilly M., Patel A.H. & Bramley A.J.: Genetic studies of <i>Staphylococcus Aureus</i> virulence factors	475

## Vol. 54, No. 6

Publisher's announcements	I
Moench T.T.: <i>Bilophococcus magnetotacticus</i> gen. nov. sp. nov., a motile, magnetic coccus	483
Illing N., Hill R.T. & Woods D.R.: Purification and characterisation of glutamine synthetase from <i>Nocardia corallina</i>	497
Amin N.E., Abdallah I.S., Faisal M., Easa M.El-S., Alaway T. & Alyan S.A.: Columnaris infection among cultured Nile tilapia <i>Oreochromis niloticus</i>	509
Takeda K.: Characteristics of a nitrogen-fixing methanotroph, <i>Methylocystis T-1</i>	521
Weijman A.C.M. & Rodrigues de Miranda L.: Carbohydrate patterns of <i>Candida</i> , <i>Cryptococcus</i> and <i>Rhodotorula</i> species	535
Weijman A.C.M., Rodrigues de Miranda L. & Van der Walt J.P.: Redefinition of <i>Candida</i> Berkhout and the consequent emendation of <i>Cryptococcus</i> Kutzing and <i>Rhodotorula</i> Harrison	545
Arguelles J.C. & Gacto M.: Differential location of regulatory and nonregulatory trehalases in <i>Candida utilis</i> cells	555
Itoh Y., Soldati L., Leisinger T. & Haas D.: Low- and intermediate-copy-number cloning vectors based on the <i>Pseudomonas</i> plasmid pVS1**	567
Erratum	575
Volume contents	577
Authors index	581
Instructions to authors	583